

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04727377

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : GOIN 1/10, 1/18, 30/02, 33/53; BOID 15/08		
US CL : 250/281,282; 436/180, 178, 177, 175, 174		
According to International Patent Classification (IPC) or to her national classification and ITP.		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 250/281, 282; 436/180, 178, 177, 175, 174		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	USPGPUB 2002/0142481 A1 (ANDERSSON et al) 03 October 2002 (03.10.2002), sections [0037], [0038], [0039], [0065], [0134], [0093], [0099], [0100], [0101]	1, 4-6, 9-13, 18, 19
Y, E	US 6,844,165 B2 (HUTCHENS et al) 18 January 2005 (18.01.2005), column 22, lines 4-53; column 24, lines 23-53; column 22, lines 4-19; column 26, lines 59-67; column 27, lines 16-18; column 33, lines 21-41	1, 4-6, 9-13, 18, 19
Y, E	US 6,818,411 B2 (HUTCHENS et al) 16 November 2004 (16.11.2004), column 22, lines 40-57; column 24, lines 35-56; column 22, lines 8-17; column 26, lines 63-67; column 27, lines 35-47; column 33, lines 30-50	1, 4-6, 9-13, 18, 19
Y, E	USPGPUB 2004/0224425 A1 (GJERDE et al) 11 November 2004 (11.11.2004), sections [0177], [0201], [0117], [0236], [0368], [0369], [0370], [0419], [0421]	1, 9-13, 18, 19
Y, E	USPGPUB 2005/0016921 A1 (GJERDE et al) 27 January 2005 (27.01.2005), section [0295], [0311], [0245], [0249], [0093], [0129], [0281], [0302]	1, 8-13, 18, 19
Y, E	USPGPUB 2005/0019950 A1 (GJERDE et al) 27 January 2005 (27.01.2005), section [0291], [0310], [0244], [0248], [0093], [0128], [0280], [0301]	1, 8-13, 18, 19
Y, E	USPGPUB 2005/0019951 A1 (GJERDE et al) 27 January 2005 (27.01.2005), section [0293], [0309], [0243], [0247], [0091], [0127], [0279], [0300]	1, 8-13, 18, 19
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 22 April 2005 (22.04.2005)		Date of mailing of the international search report 18 NOV 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer John R. Lee Telephone No. 703 308 0956

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y, E	USPGPUB 2005/0045543 A1 (GJERDE et al) 03 March 2005 (03.03.2005), sections [0295], [0311], [0245], [0249], [0093], [0129], [0302]	1, 8-13, 18, 19
Y, E ,	USPGPUB 2005/0019941 A1 (GJERDE et al) 27 January 2005 (27.01.2005), section [0296], [0312], [0246], [0250], [0093], [0129], [0282], [0303]	1, 8-13, 18, 19